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Measuring CPU overhead for I/O processing in the Xen virtual machine monitor

I. Cherikawa, R. Gardner, ... of the annual conference on USENIX ..., 2005 - portal.acm.org

Virtual Machine Monitors (VMMs) are gaining popularity in enterprise environments as a software-based solution for building shared hardware infrastructures via virtualization. In this work, using the Xen VMM, we present a light weight monitoring system for measuring the ...

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J. Sugerman, G. Venkatachalam, B.H. Lim - USENIX Annual Technical ..., 2001 - userenix.org

... uses it to host a user-level application (VMApp) component, as well as to schedule a private-ileged virtual machine monitor (VMM) component. ... Although a straight-forward hosted implementation is CPU-limited due to virtualization overhead on a 733 MHz Pentium R III system on ...

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K. Fraser, S. Hand, R. Neugebauer, J. Prall, A. ... 1st Workshop on ..., 2004 - Citeseer

... of these ideas, demonstrating that isolation can be provided with a surprisingly low performance overhead. ... driver code in a separate logical fault domain, essentially providing virtual memory protection ... that we present in Section 4 uses a virtual machine monitor (VMM) to ...

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R.P. Goldberg - IEEE Computer, 1974 - cs.usb.edu

... This may imply a very large simulation program and significant overhead for COMPUTER ... Systems of this kind are called virtual machine systems, the simulated machines are called virtual machines (VMs), and the simulator software is called the virtual machine monitor (VMM). ...

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S.W. Devine, E. Bugnion, M. Rosenblum - US Patent 5,397,242, 2002 - Google Patents

... monitors described above, and from the definition of the term "virtual machine monitor" applied to ... machine emulators since they run at system level without the overhead and constraint ... can run any application and any operating system written for the virtual machine architecture ...

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M. Rosenblum, T. Garfinkel - Computer, 2005 - ieeeexplore.ieee.org

... quantify traps can incur significant additional overhead when using direct execution since each trap transfers control from the virtual machine to the monitor and back. Binary translation can eliminate many of these traps, which results in a lower overall virtualization overhead. ...

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G.W. Dunlap, S.T. King, S. Chari, M.A. Baerli, ... - ACM SIGOPS ..., 2002 - portal.acm.org

... Logging adds 0-8% overhead, and logging traffic for our workloads can be stored on a single disk for several months. 1. Introduction Improving the security of today's computer systems is an urgent and difficult problem. ... guest application virtual machine monitor (VMM) ...

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T. Garfinkel, M. Rosenblum - Proc. Network and Distributed Systems ..., 2003 - Citeseer

... To better understand the implementation difficulties, performance overhead, usability, and practical effectiveness of our VMI architecture, we built Livewire, a ... We used a modified version of VMware Workstation for Linux to provide us with a virtual machine monitor capable of ...

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S.T. King, G.W. Dunlap, P.M. Chen - Proceedings of the annual ..., 2003 - portal.acm.org

... A virtual-machine monitor (VMM) is a useful technique for adding functionality below existing operating system ..., of magnitude slower than that achieved when running outside a virtual machine (a standalone) ... In this paper, we examine the reasons for this large overhead for Type II ...

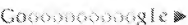
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... a non-virtualized environment because of interactions with the underlying virtual machine monitor and other ... are currently available to help debug performance problems in virtual machine environments ... wide statistical profiling toolkit implemented for the Xen virtual machine ...

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